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FIG. 1

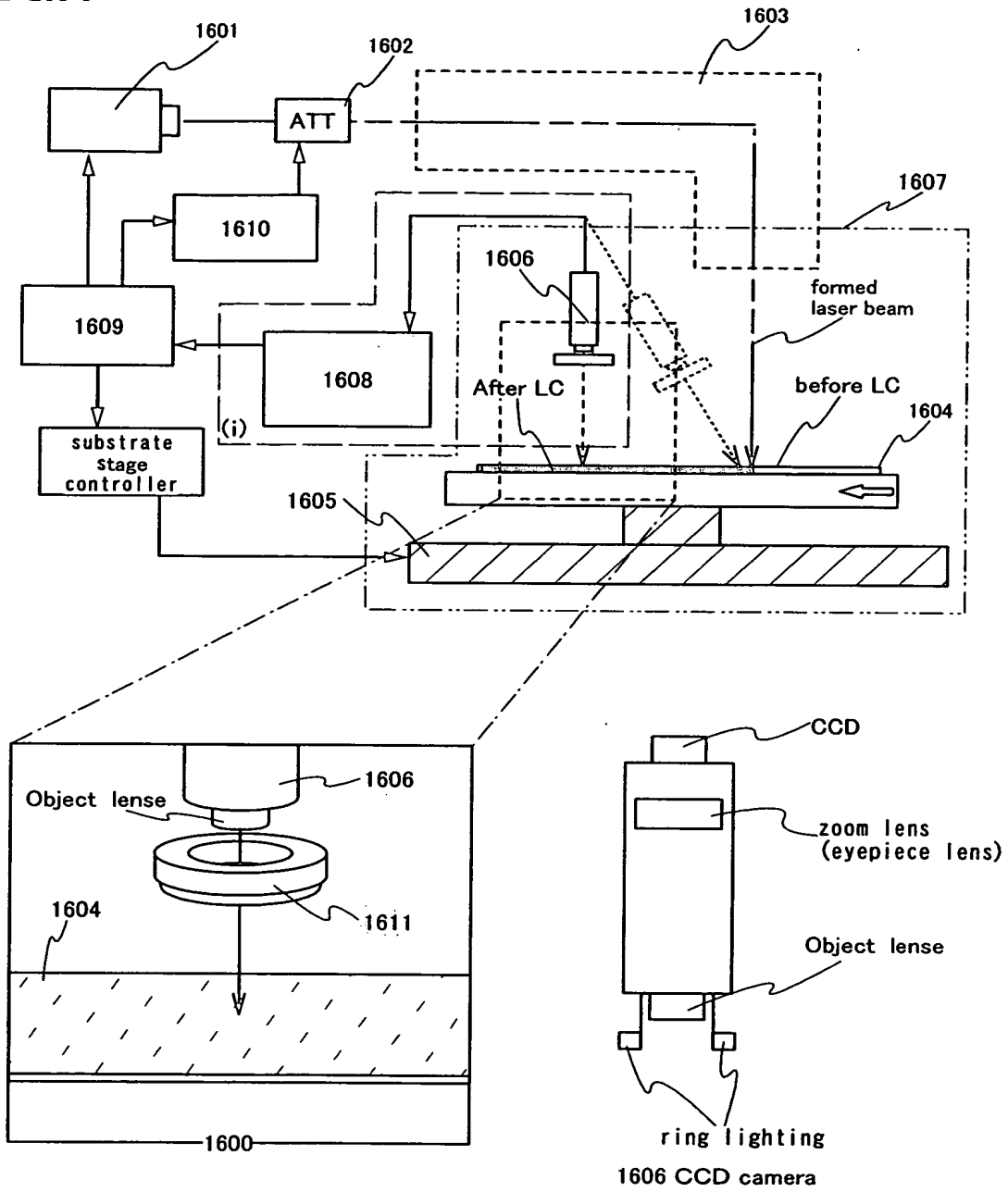


FIG.2A

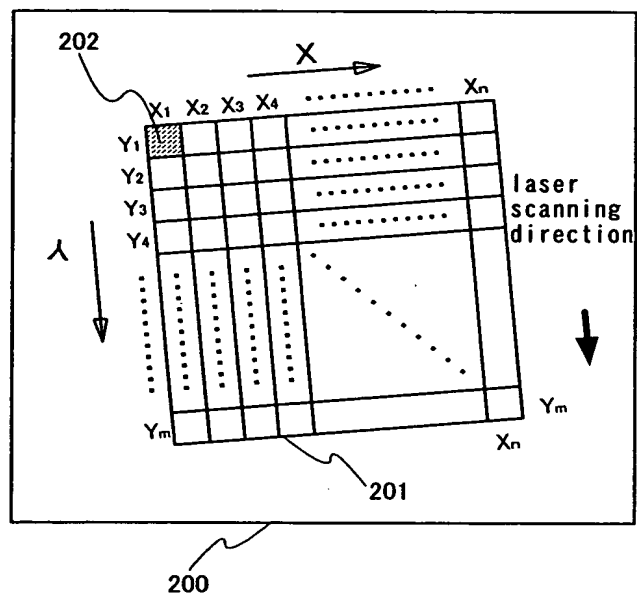
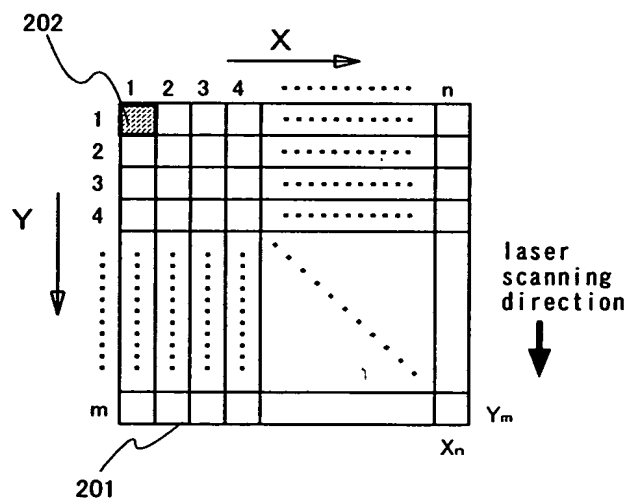
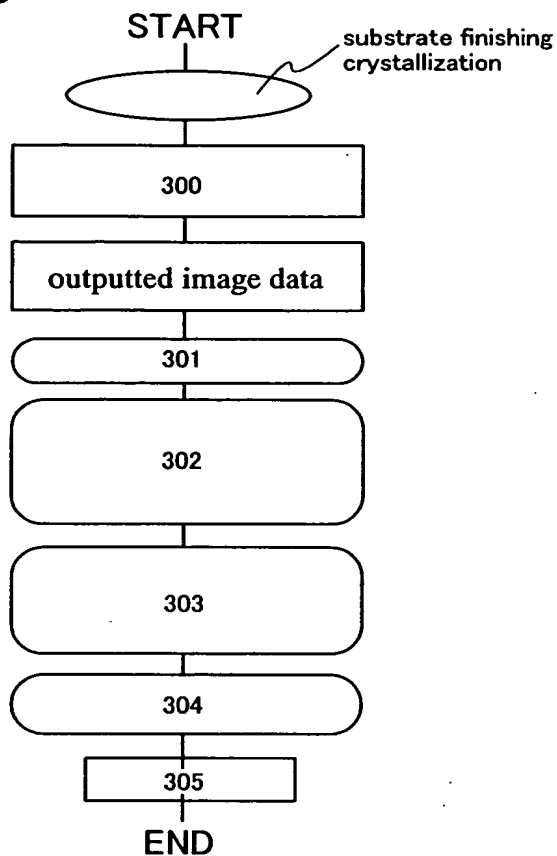


FIG.2B



**FIG.3**



**B:luminance value**

$$Bt_{Y_1} = B(X_1, Y_1) + B(X_2, Y_1) + B(X_3, Y_1) + \dots + B(X_n, Y_1)$$

$$Bt_{Y_2} = B(X_1, Y_2) + B(X_2, Y_2) + B(X_3, Y_2) + \dots + B(X_n, Y_2)$$

$$Bt_{Y_3} = B(X_1, Y_3) + B(X_2, Y_3) + B(X_3, Y_3) + \dots + B(X_n, Y_3)$$

⋮      ⋮      ⋮      ⋮      ⋮

$$Bt_{Y_m} = B(X_1, Y_m) + B(X_2, Y_m) + B(X_3, Y_m) + \dots + B(X_n, Y_m)$$

FIG.4

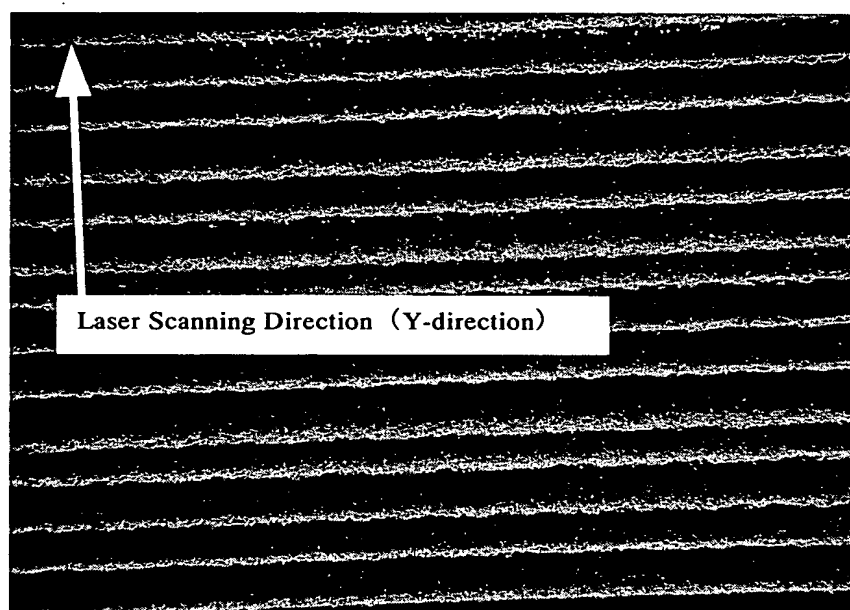


FIG.5A

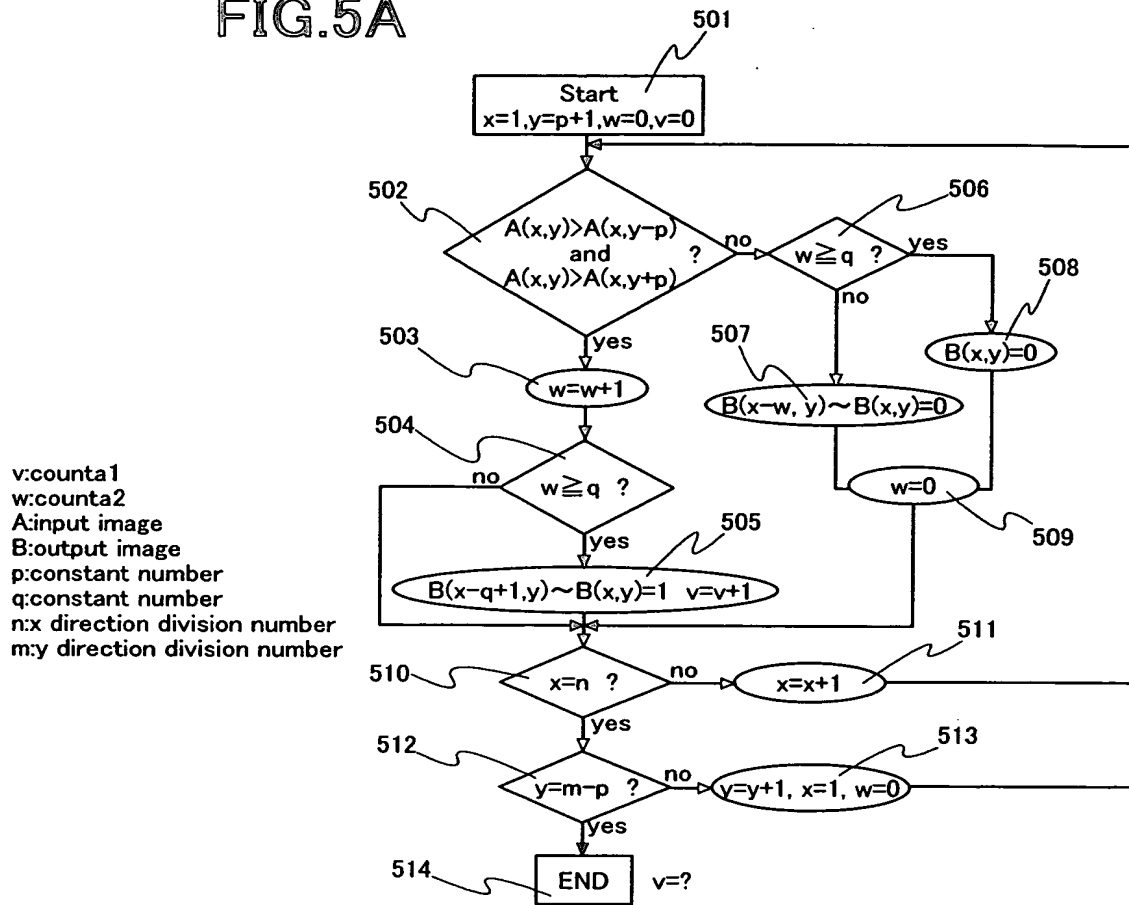
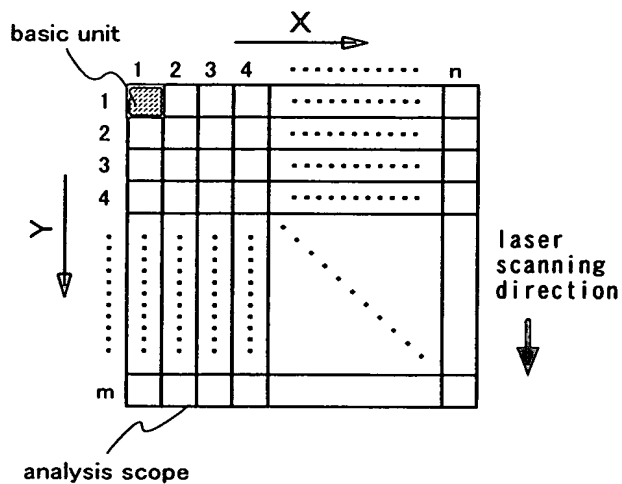
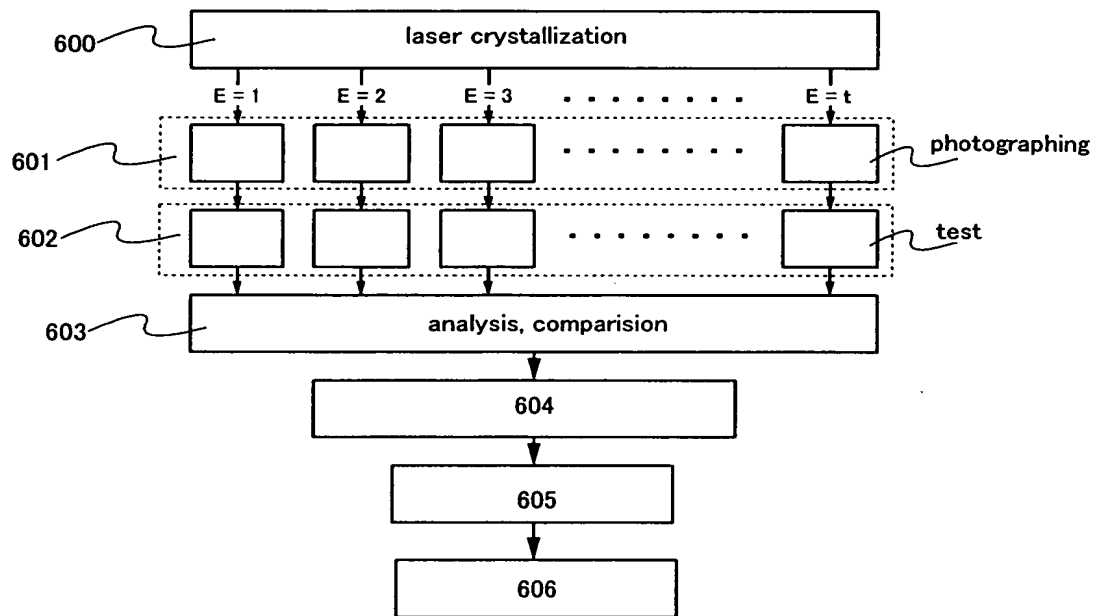


FIG.5B



**FIG.6**



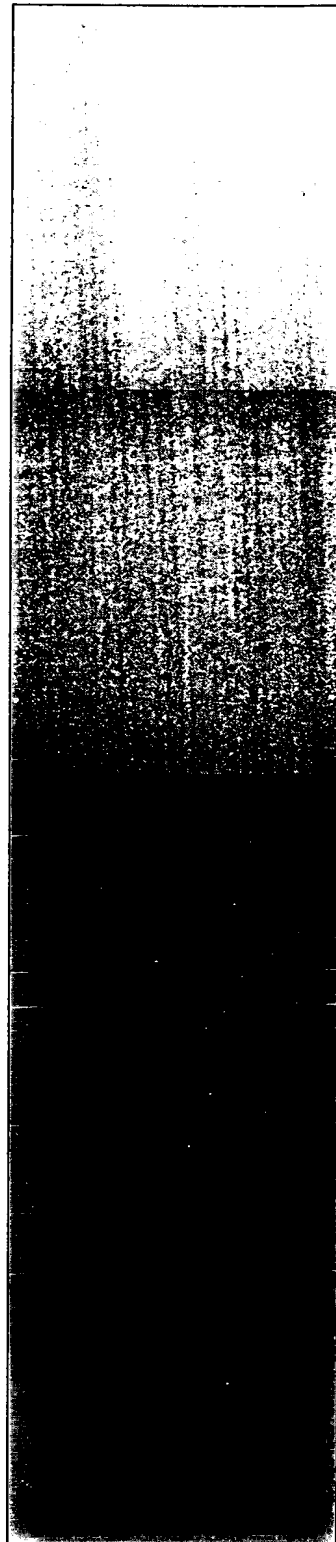


Fig. 7A 379.0mJ/cm<sup>2</sup>

Fig. 7B 390.3mJ/cm<sup>2</sup>

Fig. 7C 404.5mJ/cm<sup>2</sup>

Fig. 7D 411.2mJ/cm<sup>2</sup>

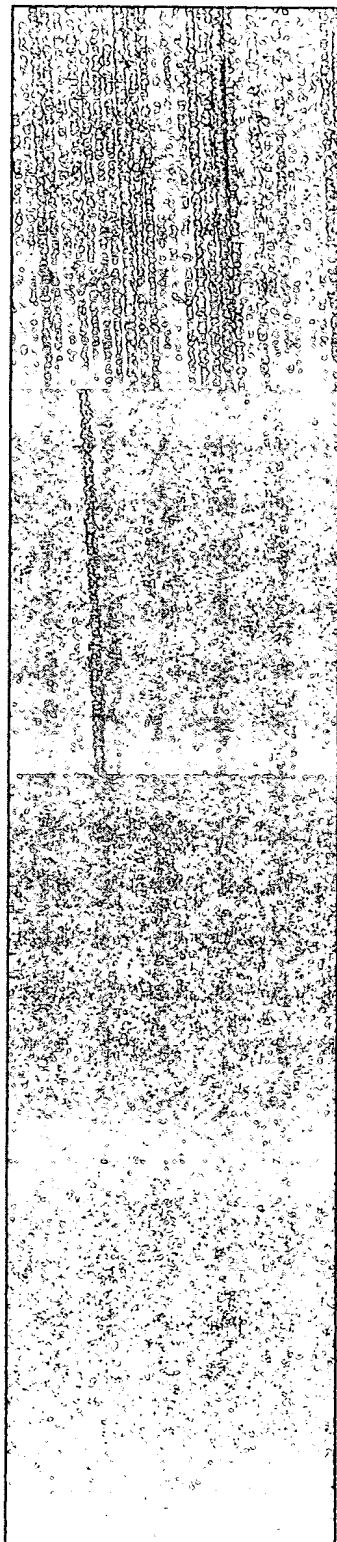


Fig. 7D 423.9mJ/cm<sup>2</sup>

Fig. 7E 432.7mJ/cm<sup>2</sup>

Fig. 7F 443.6mJ/cm<sup>2</sup>

Fig. 7G 455.7mJ/cm<sup>2</sup>

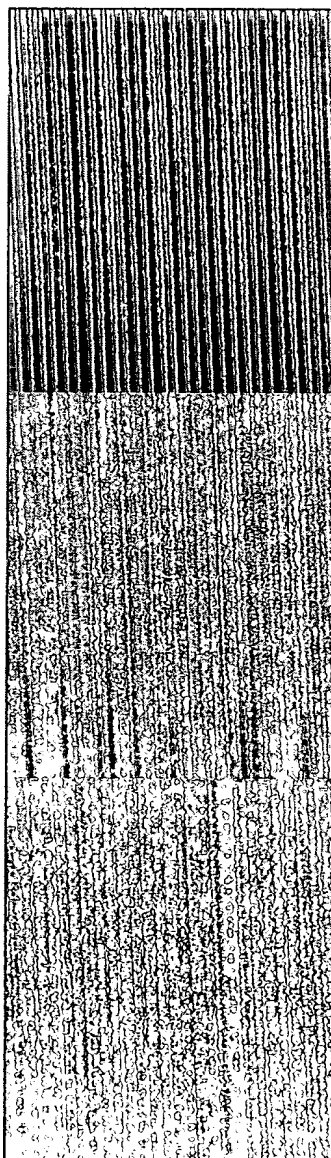


Fig. 7H 466.3mJ/cm<sup>2</sup>

Fig. 7I 475.4mJ/cm<sup>2</sup>

Fig. 7J 487.2mJ/cm<sup>2</sup>

After LC, CCD original image  
(dark field)  $\times 100$  (Note that this  
is reduced to 16%.) Under Line;  
optimal condition in functional  
inspection





Fig.8A 379.0mJ/cm<sup>2</sup>

Fig.8B 390.3mJ/cm<sup>2</sup>

Fig.8C 404.5mJ/cm<sup>2</sup>

Fig.8D 411.2mJ/cm<sup>2</sup>

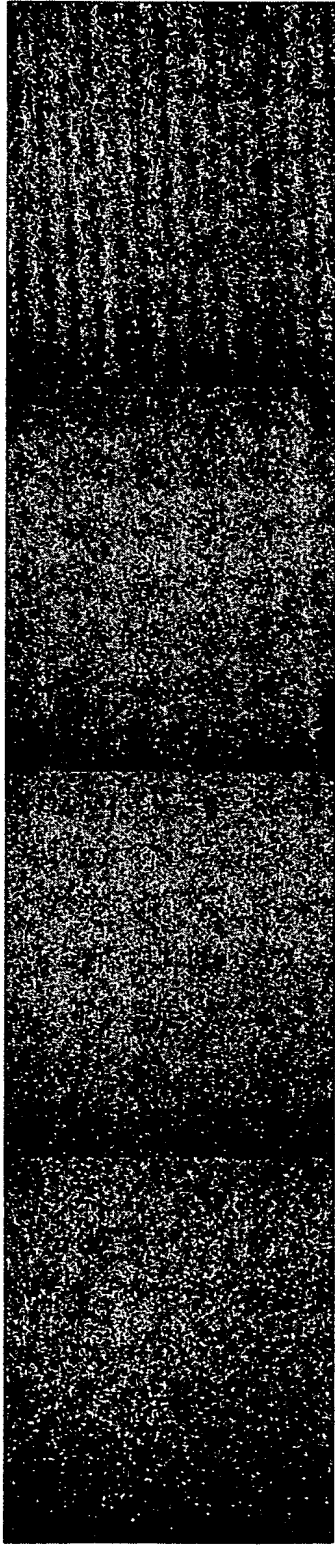


Fig.8E 423.9mJ/cm<sup>2</sup>

Fig.8F 432.7mJ/cm<sup>2</sup>

Fig.8G 443.6mJ/cm<sup>2</sup>

Fig.8G 455.7mJ/cm<sup>2</sup>

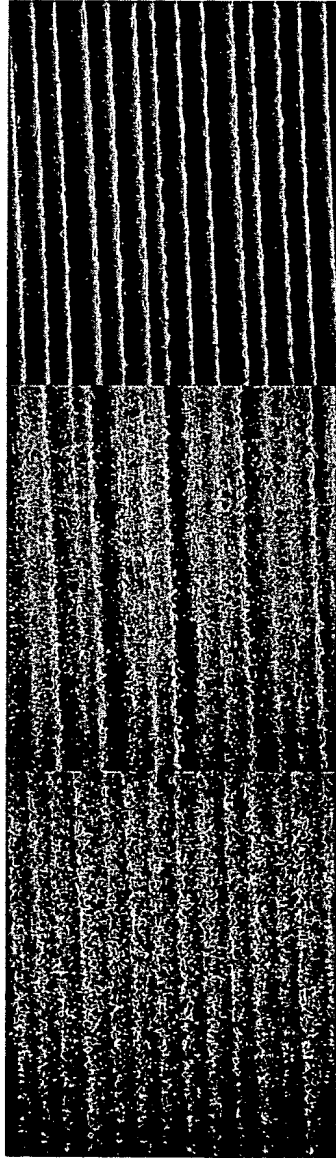


Fig.8H 466.3mJ/cm<sup>2</sup>

Fig.8I 475.4mJ/cm<sup>2</sup>

Fig.8J 487.2mJ/cm<sup>2</sup>

After LC, CCD original image (dark field)×200 (Note that this is reduced to 16%.)  
underline; optimal condition in functional inspection

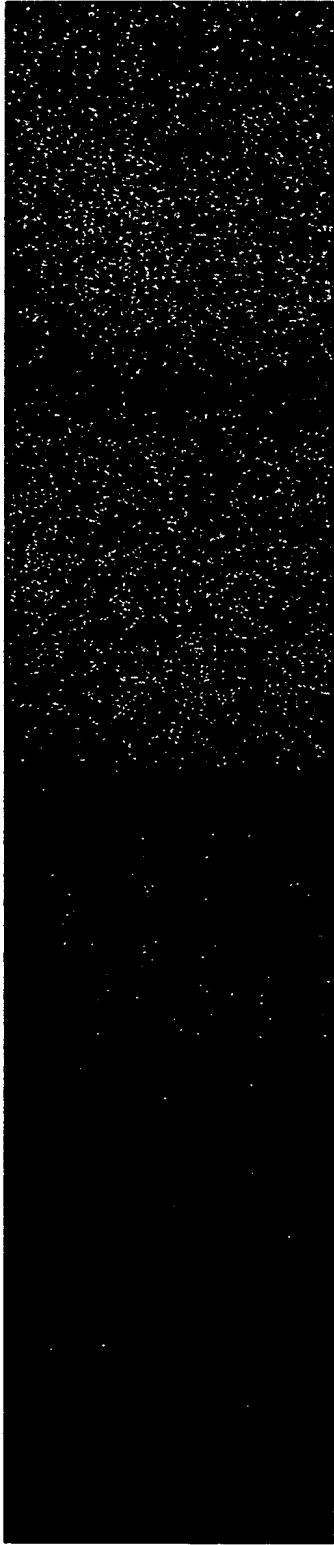


Fig.9A 379.0mJ/cm<sup>2</sup>

Fig.9B 390.3mJ/cm<sup>2</sup>

Fig.9C 404.5mJ/cm<sup>2</sup>

Fig.9D 411.2mJ/cm<sup>2</sup>

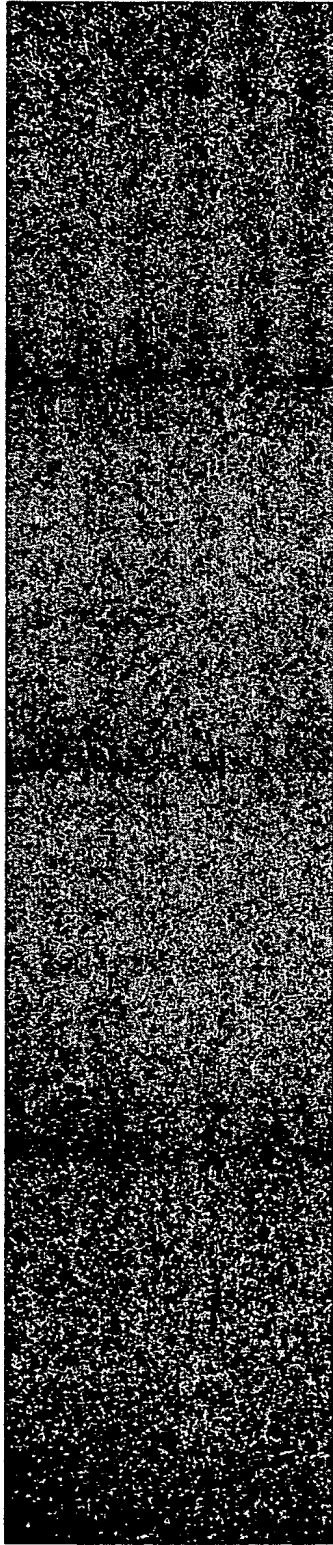


Fig.9E 423.9mJ/cm<sup>2</sup>

Fig.9F 432.7mJ/cm<sup>2</sup>

Fig.9G 443.6mJ/cm<sup>2</sup>

Fig.9H 455.7mJ/cm<sup>2</sup>

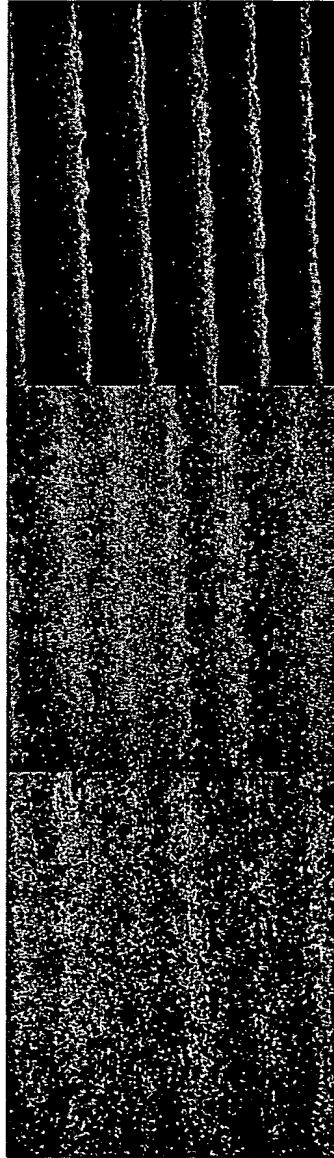


Fig.9I 466.3mJ/cm<sup>2</sup>

Fig.9J 475.4mJ/cm<sup>2</sup>

Fig.9K 487.2mJ/cm<sup>2</sup>

After LC, CCD original image  
(dark field)×500 (Note that this is  
reduced to 16%. ) Under Line;  
optimal condition in functional  
inspection



Fig.10A 379.0mJ/cm<sup>2</sup>

Fig.10B 390.3mJ/cm<sup>2</sup>

Fig.10C 404.5mJ/cm<sup>2</sup>

Fig.10D 411.2mJ/cm<sup>2</sup>

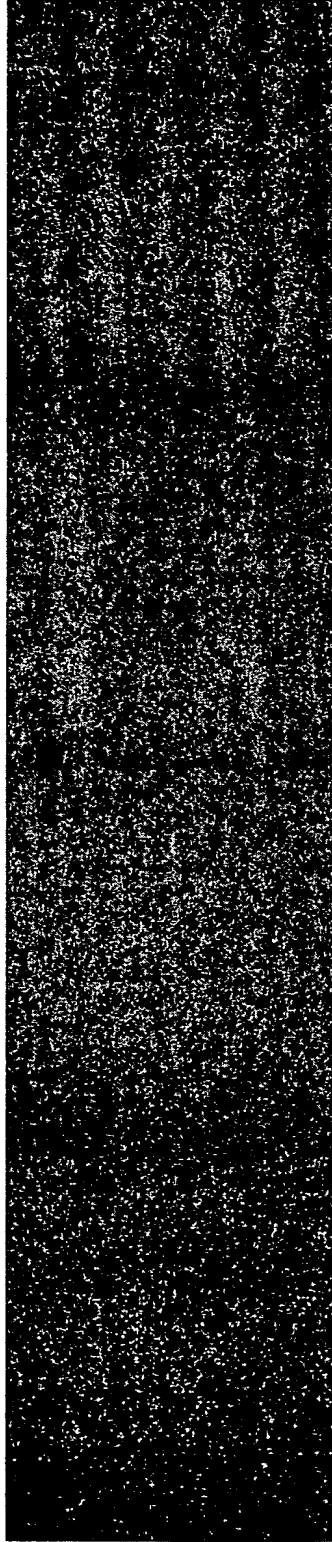


Fig.10E 423.9mJ/cm<sup>2</sup>

Fig.10F 432.7mJ/cm<sup>2</sup>

Fig.10G 443.6mJ/cm<sup>2</sup>

Fig.10H 455.7mJ/cm<sup>2</sup>

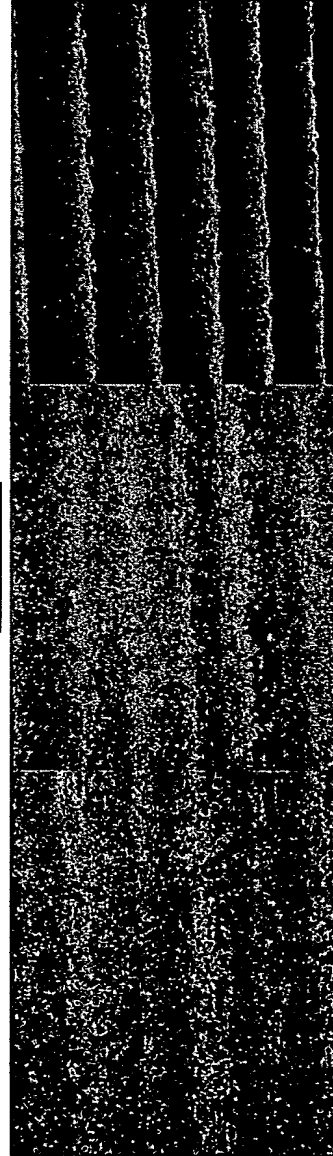
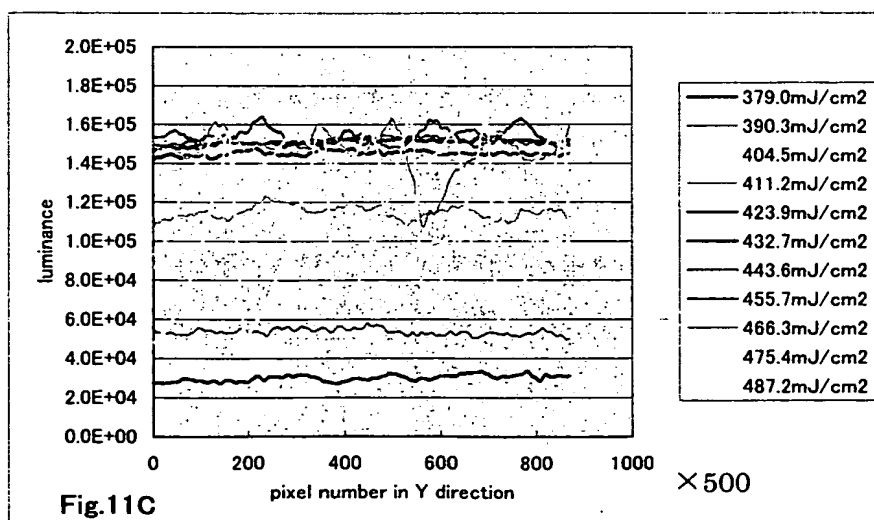
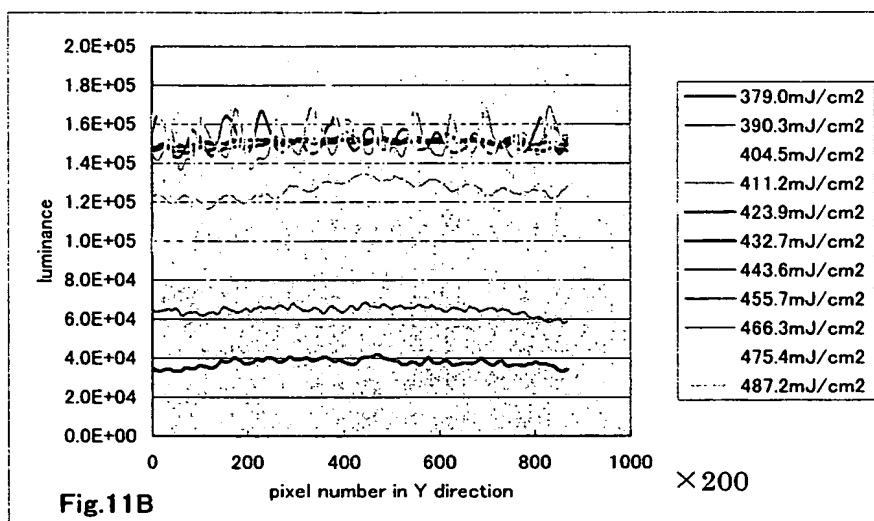
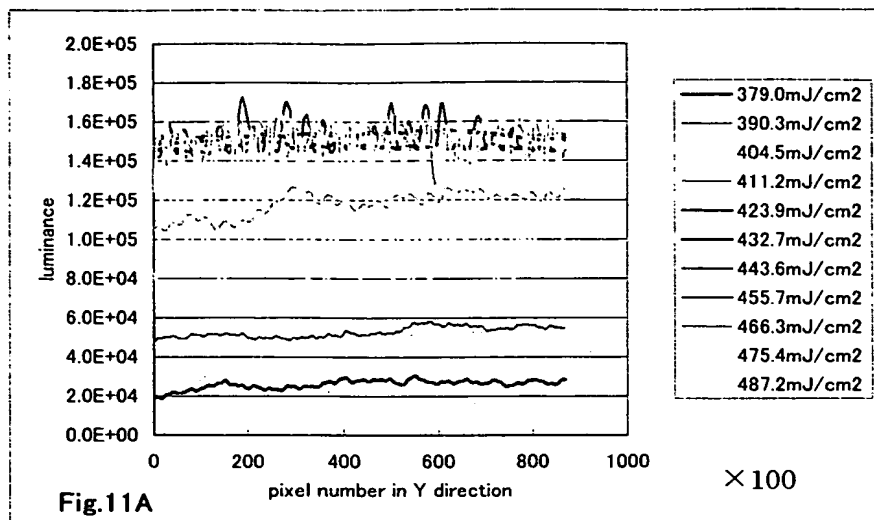


Fig.10I 466.3mJ/cm<sup>2</sup>

Fig.10J 475.4mJ/cm<sup>2</sup>

Fig.10K 487.2mJ/cm<sup>2</sup>

After LC, CCD luminance image (×500; Note that this is reduced to 16% optimal condition in functional inspection.



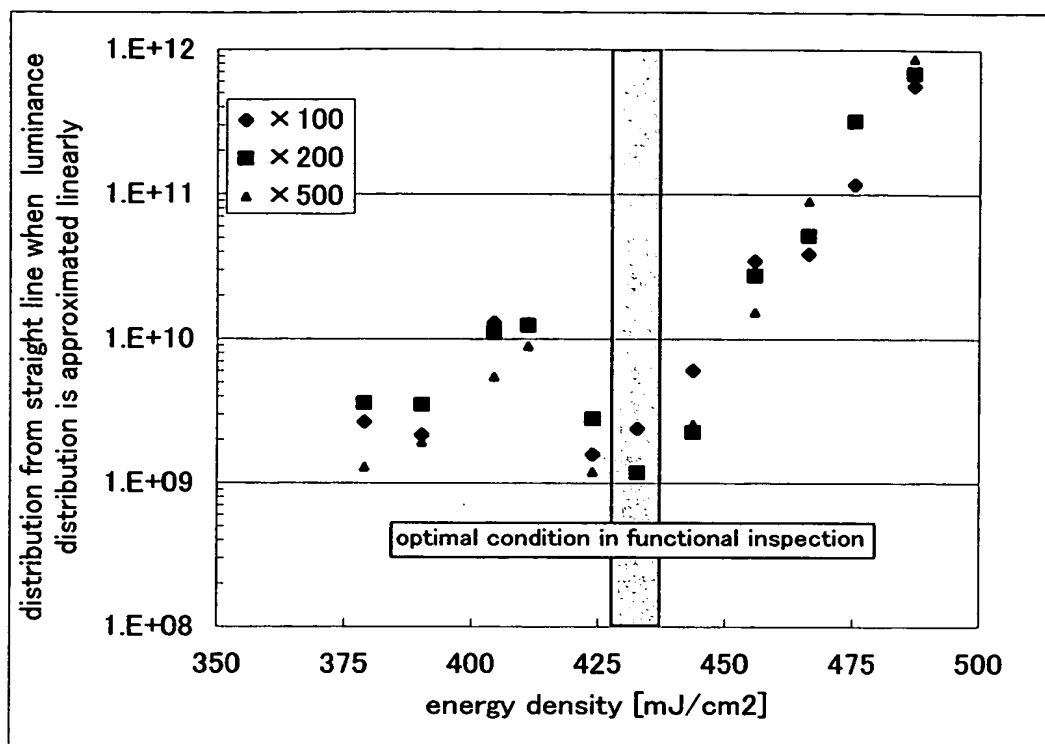


FIG. 12A

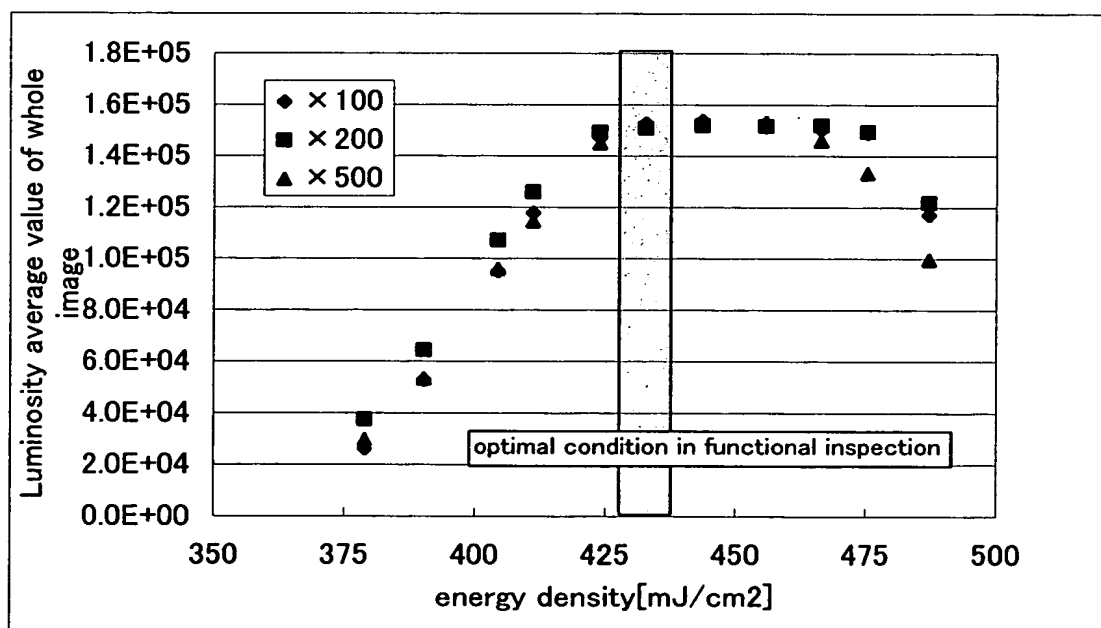


FIG. 12B

Fig. 13A

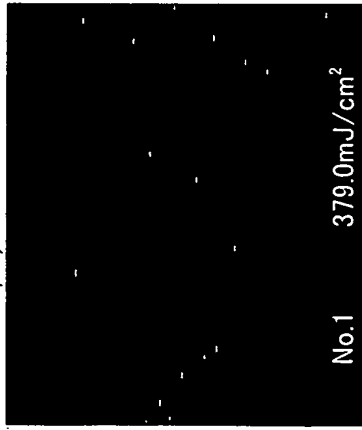


Fig. 13B



Fig. 13C



Fig. 13D



Fig. 13E

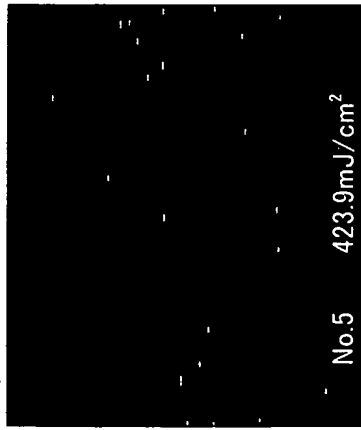


Fig. 13F

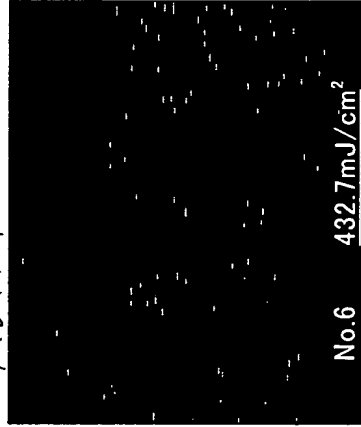


Fig. 13G

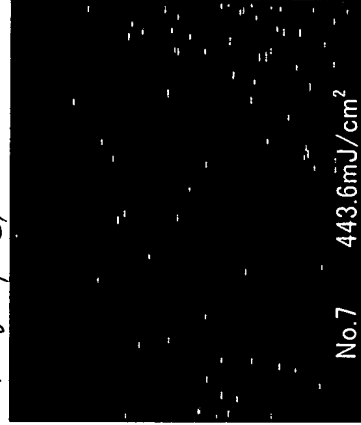


Fig. 13H

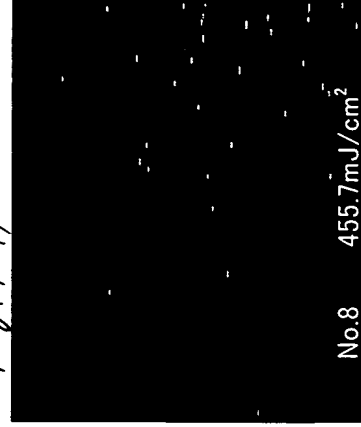


Fig. 13I



Fig. 13J



Fig. 13K



After LC, CCD extra image  
(× 500; Note that this is  
reduced to 16%)  
underline; optimal  
condition in functional  
inspection.

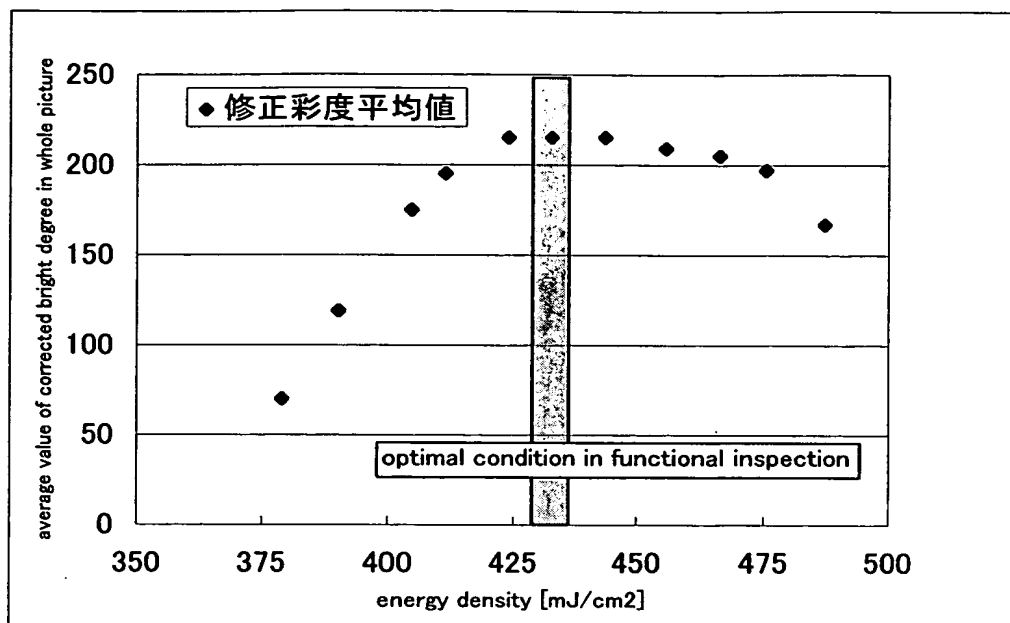


FIG. 14A  $\times 500$

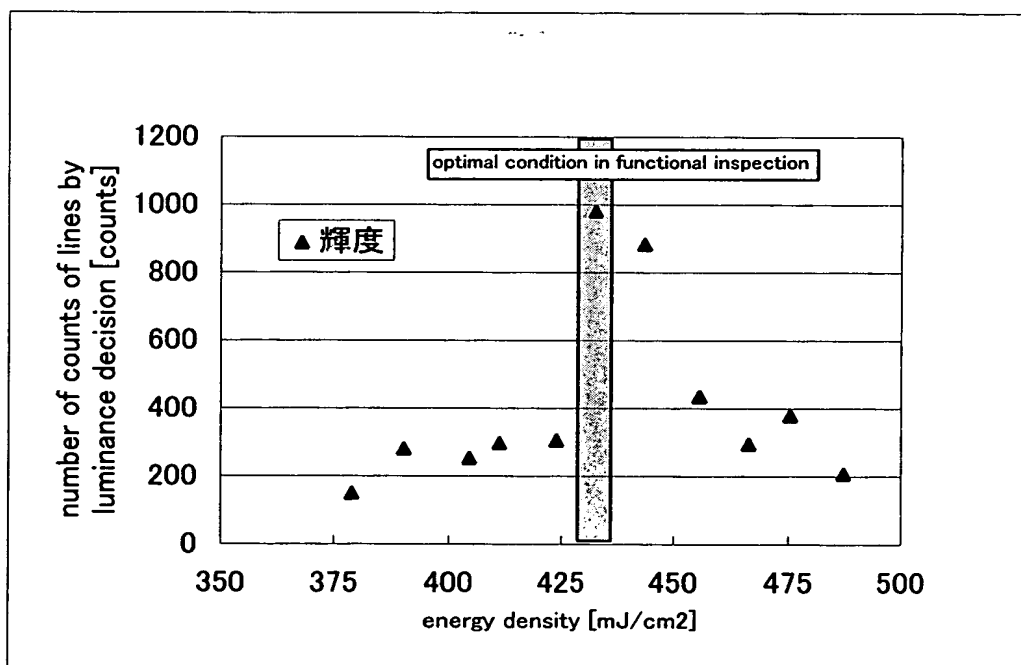


FIG. 14B  $\times 500$

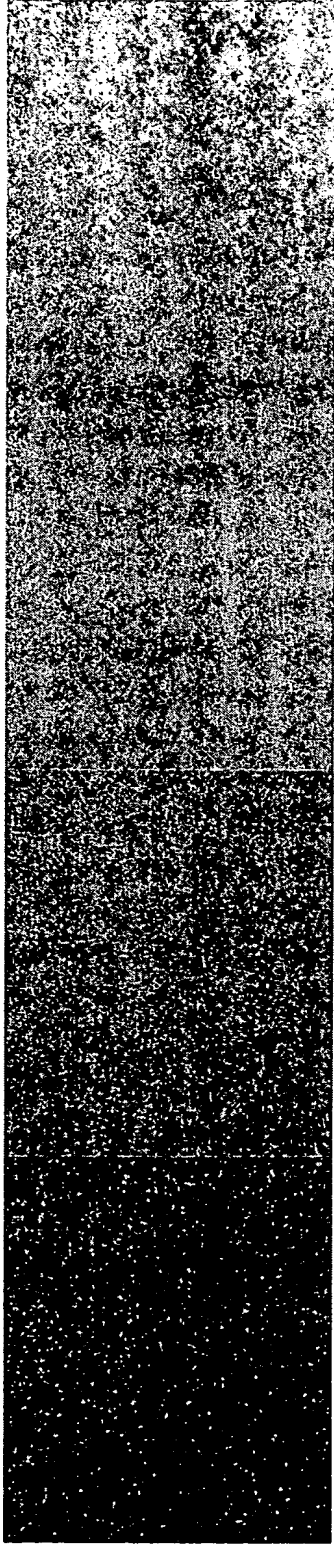


Fig.15A 379.0mJ/cm<sup>2</sup>

Fig.15B 390.3mJ/cm<sup>2</sup>

Fig.15C 404.5mJ/cm<sup>2</sup>

Fig.15D 411.2mJ/cm<sup>2</sup>

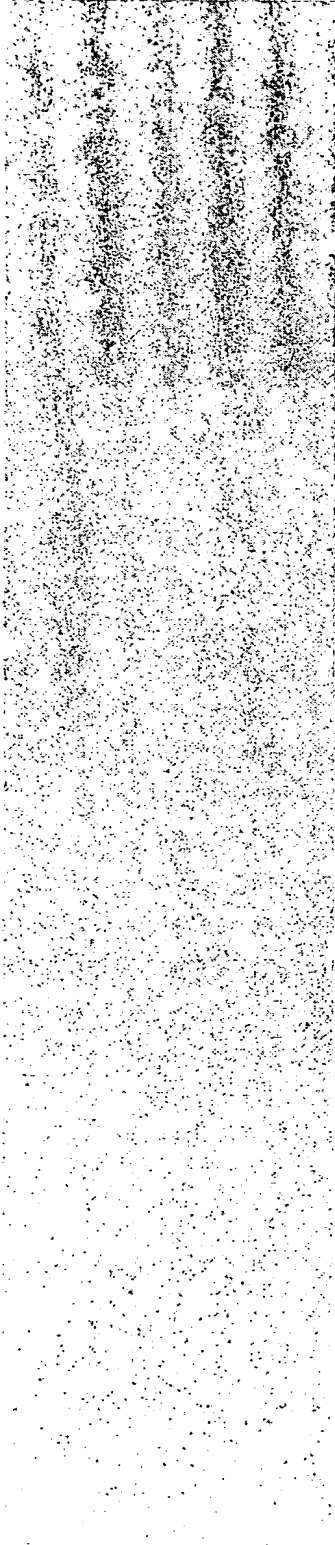


Fig.15E 423.9mJ/cm<sup>2</sup>

Fig.15F 432.7mJ/cm<sup>2</sup>

Fig.15G 443.6mJ/cm<sup>2</sup>

Fig.15H 455.7mJ/cm<sup>2</sup>



Fig.15I 466.3mJ/cm<sup>2</sup>

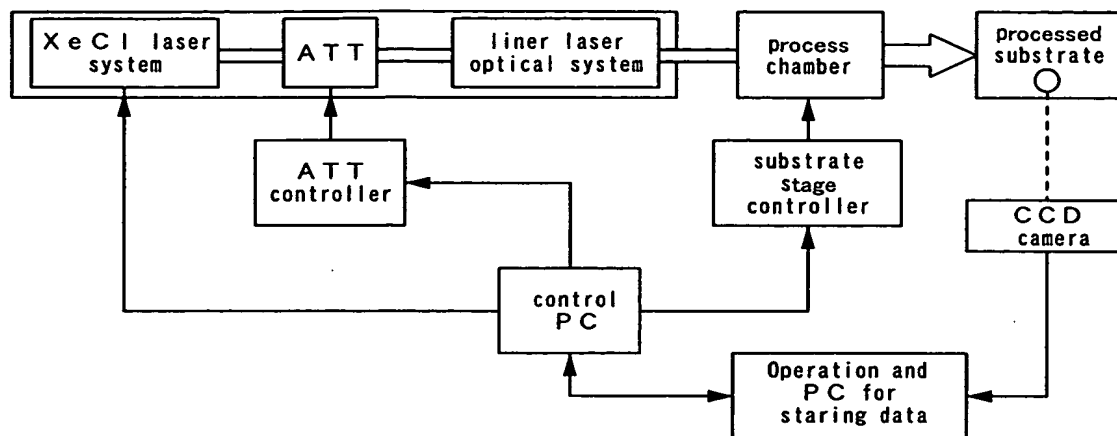
Fig.15J 475.4mJ/cm<sup>2</sup>

Fig.15K 487.2mJ/cm<sup>2</sup>

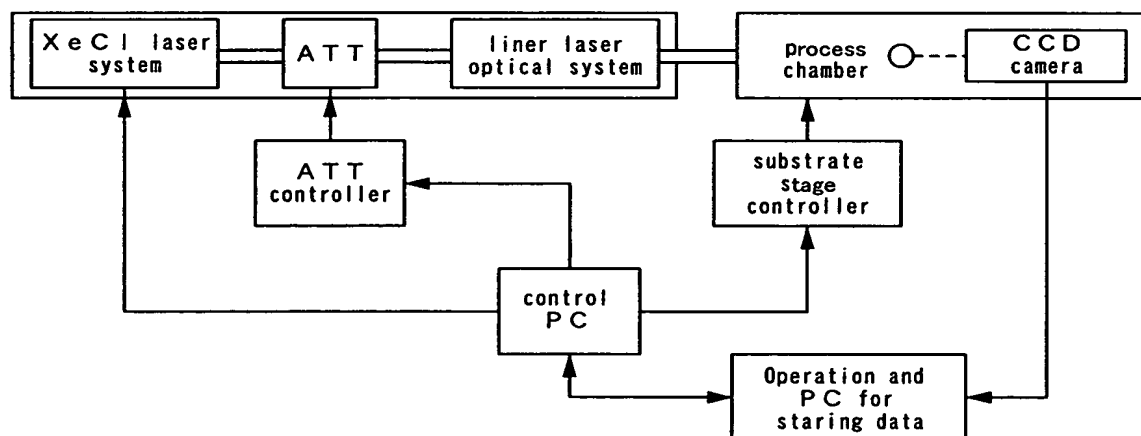
After LC, CCD image of modified bright degree ( × 500; Note that this is reduced to 16%.)  
underline; optimal condition in functional inspection



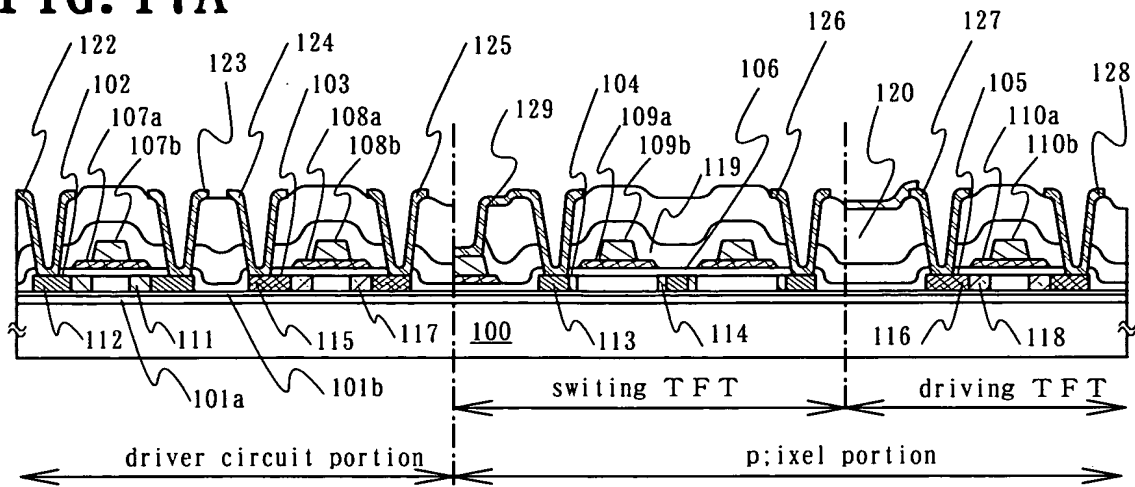
**FIG.16A**



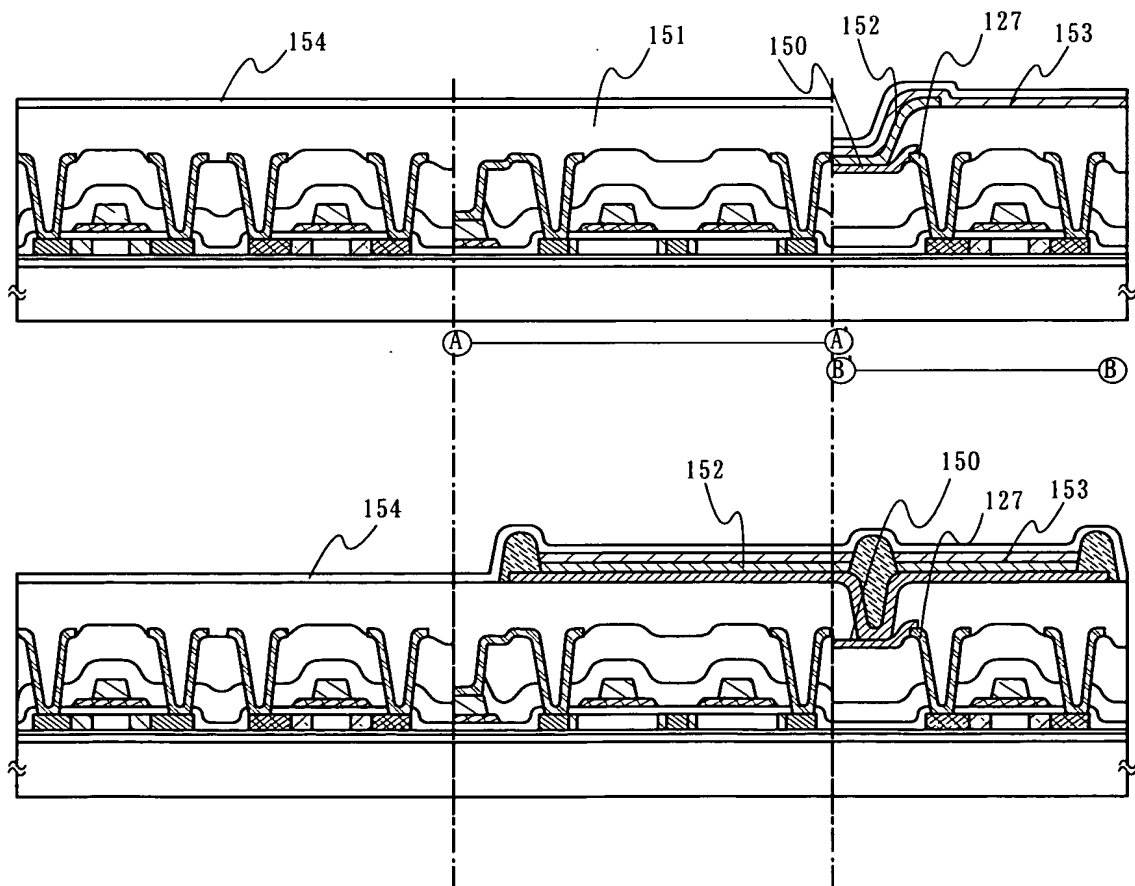
**FIG.16B**



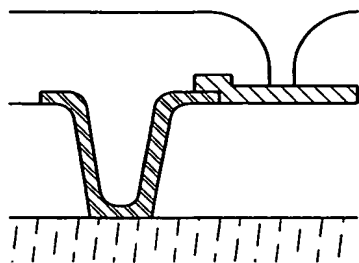
**FIG. 17A**



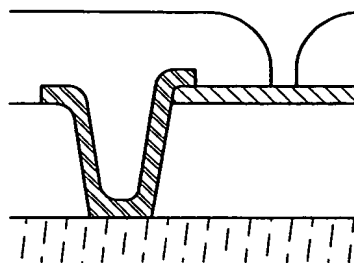
**FIG. 17B**



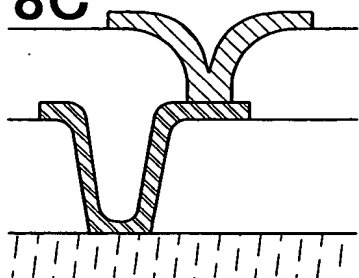
**FIG.18A**

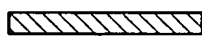
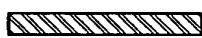


**FIG.18B**

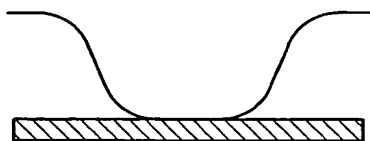


**FIG.18C**

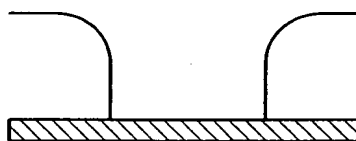


 transparent conductive film  
 wiring

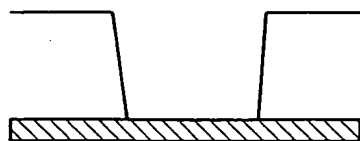
**FIG.18D**



**FIG.18E**

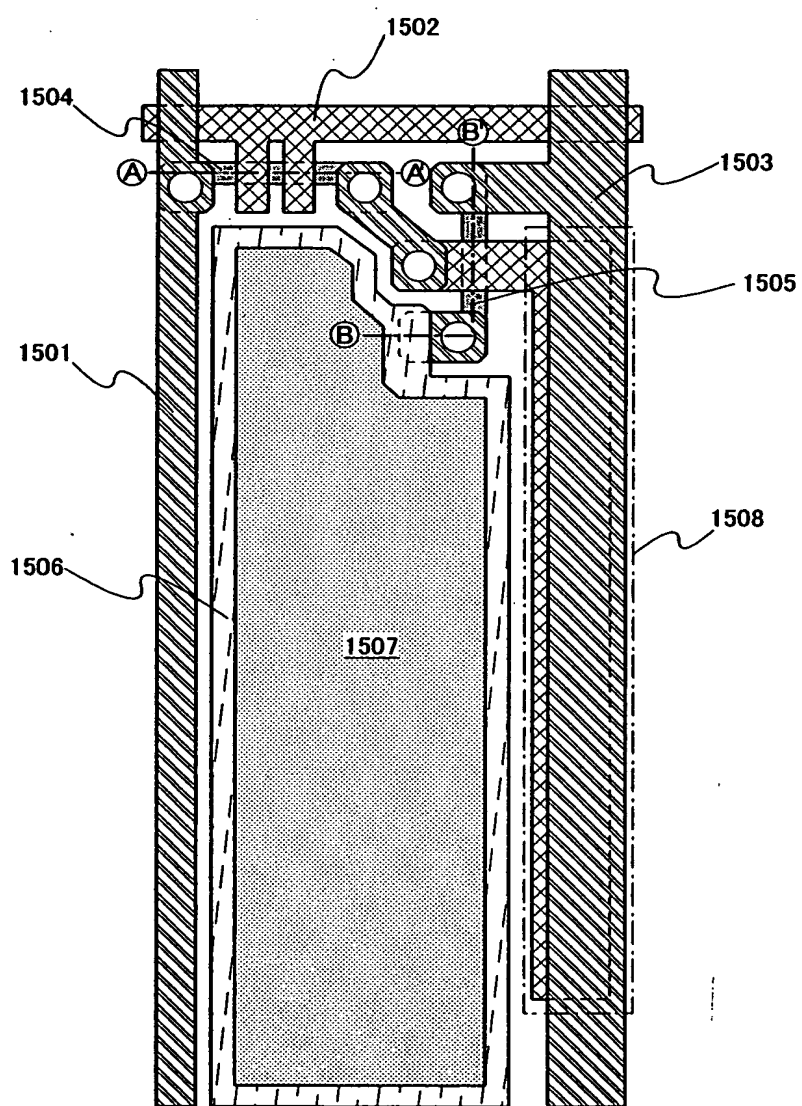


**FIG.18F**

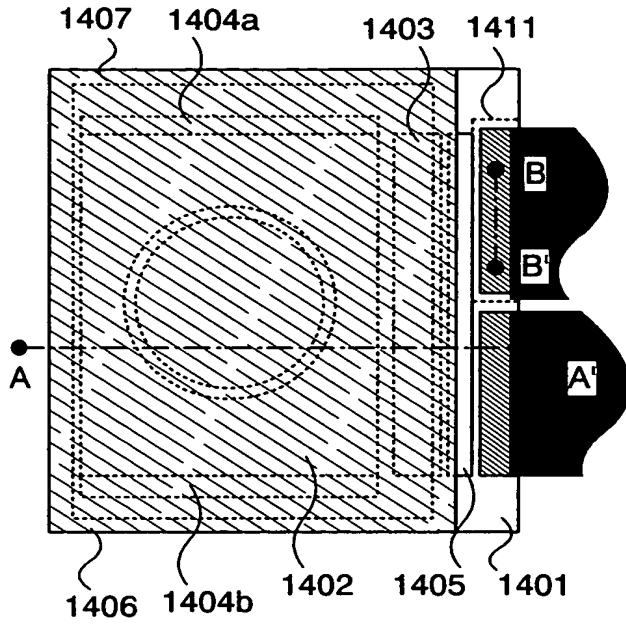


 transparent conductive film

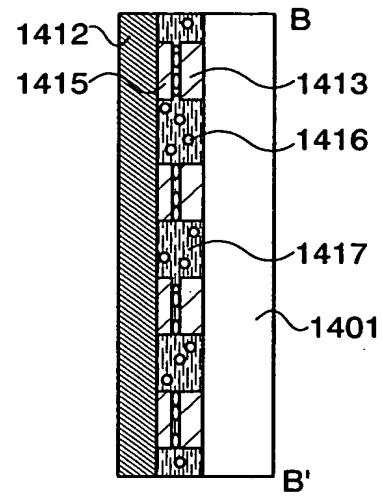
**FIG.19**



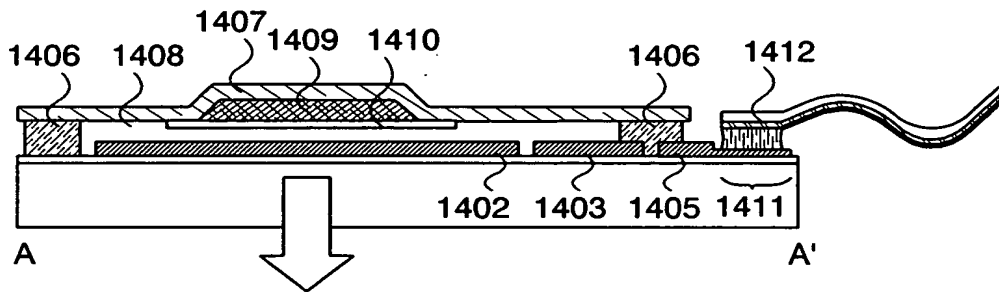
**FIG.20A**



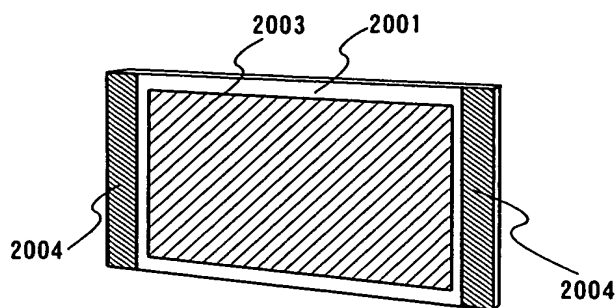
**FIG.20B**



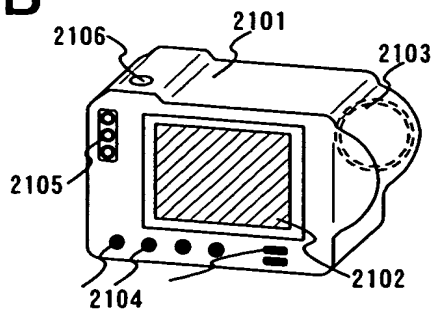
**FIG.20C**



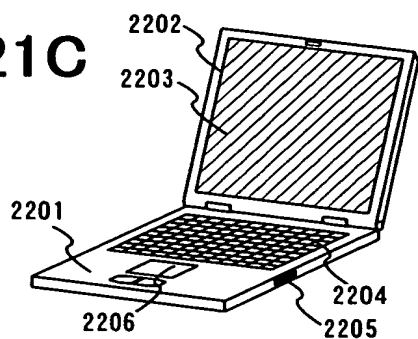
**FIG.21A**



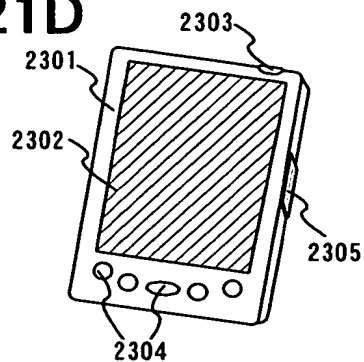
**FIG.21B**



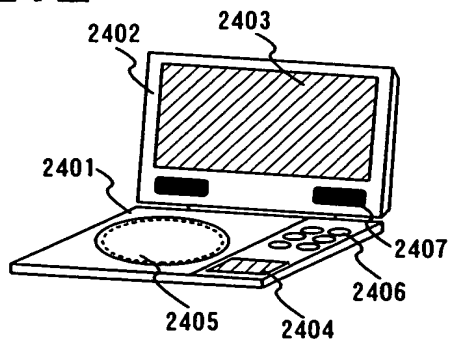
**FIG.21C**



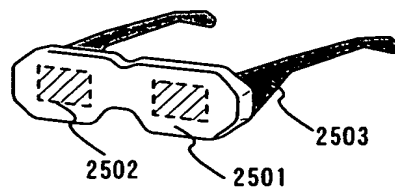
**FIG.21D**



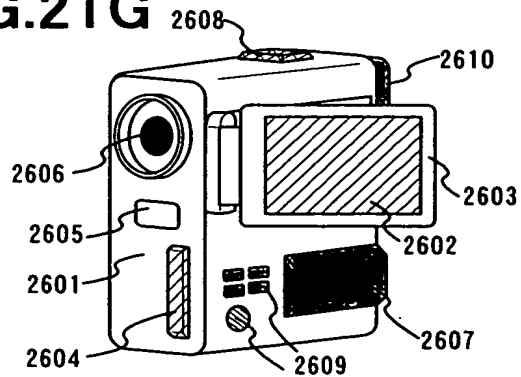
**FIG.21E**



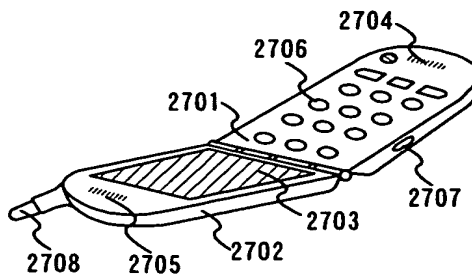
**FIG.21F**



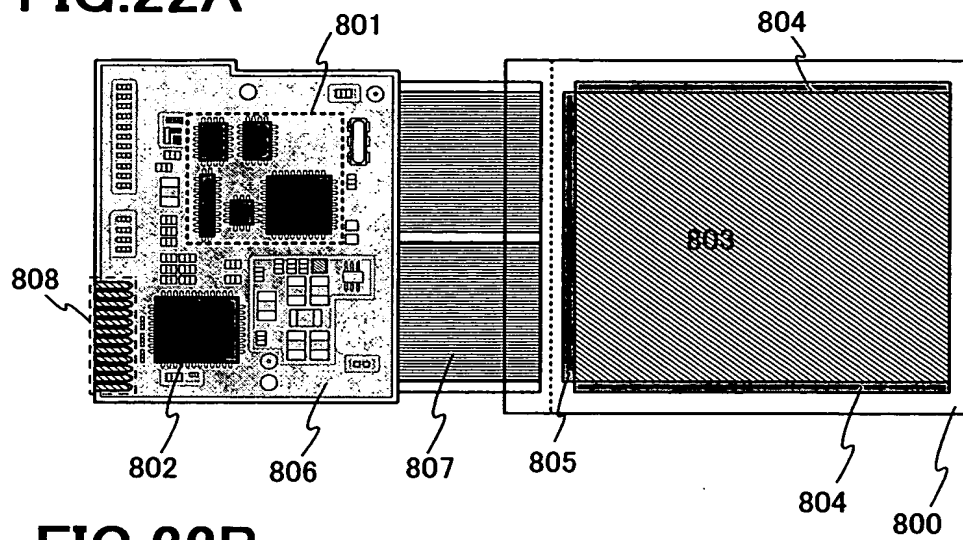
**FIG.21G**



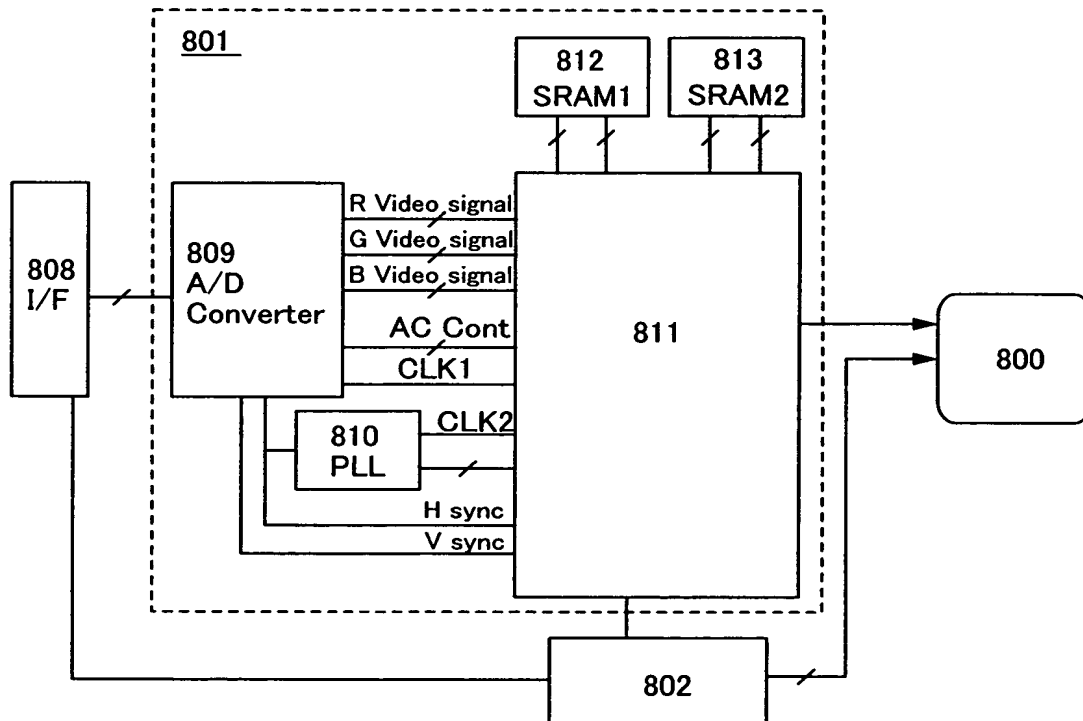
**FIG.21H**

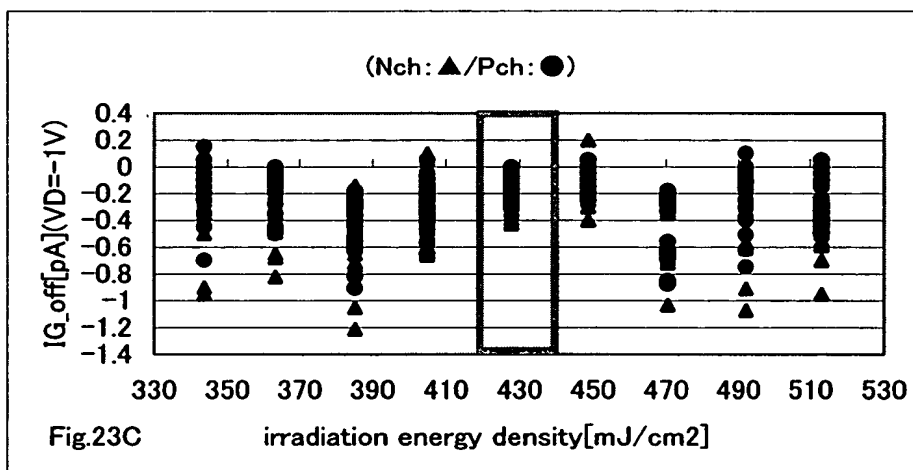
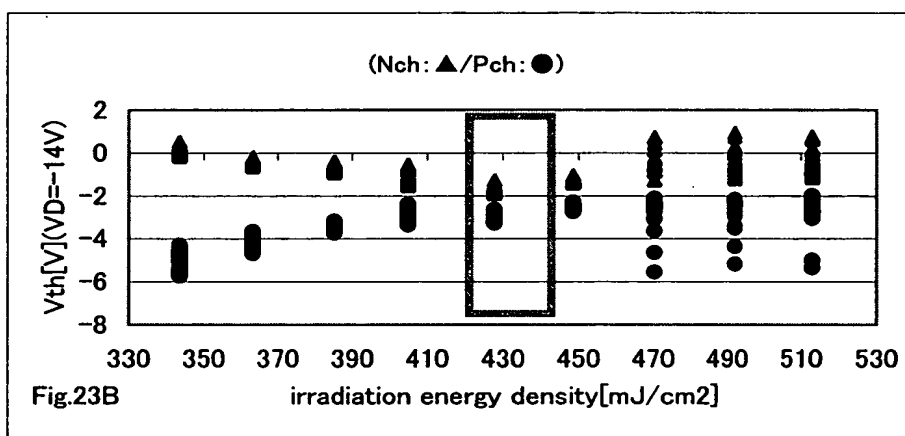
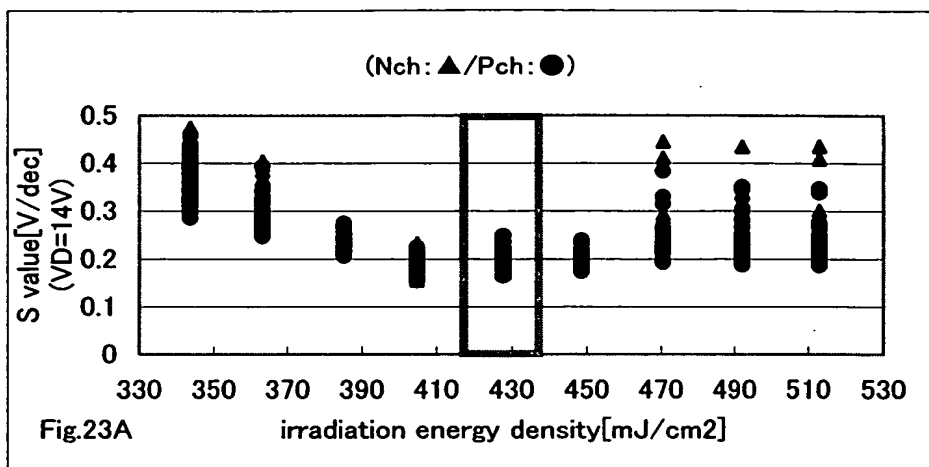


**FIG.22A**



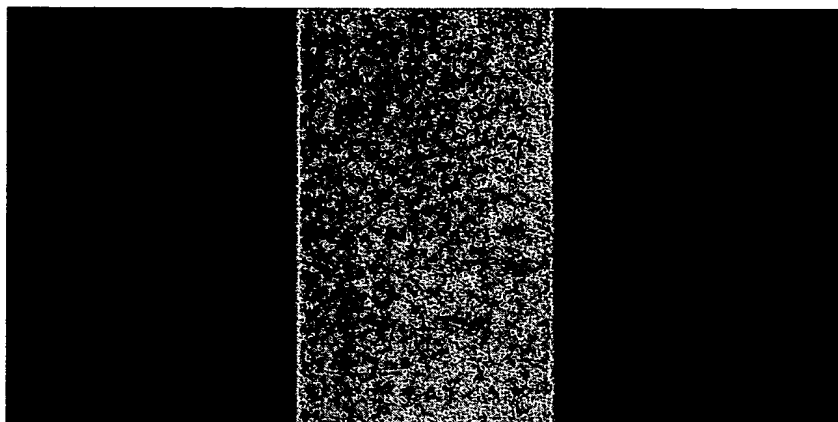
**FIG.22B**







**FIG.24A**



**FIG.24B**

